<u>Claims</u>

- 1. (Canceled)
- 2. (Currently Amended) A self-crosslinkable copolymer consisting essentially of: caprolactone units; and

fumarate units,

wherein the copolymer is prepared by reacting (i) poly(caprolactone) and (ii) fumaric acid or a salt thereof, and

wherein the poly(caprolactone) has a number average molecular weight in the range of 500-10000 daltons, and

wherein the copolymer has a number average molecular weight in the range of 3000 to 4000, and a polydispersity index in the range of 2 to 4, a melting point in the range of 50°C to 70°C, and a hardening point in the range of 30°C to 40°C, and

wherein the copolymer is injectable at temperatures above the melting point <u>and</u> <u>self-crosslinkable in situ without a crosslinking agent</u>.

- 3. (Canceled)
- 4. (Canceled)
- 5. (Canceled)
- 6. (Canceled)
- 7. (Canceled)
- 8. (Canceled)
- 9. (Previously Presented) The copolymer of claim 2 wherein the copolymer is prepared by reacting poly(ε-caprolactone) and fumaryl chloride.

- 10. (Canceled).
- 11. (Canceled).
- 12. (Canceled).
- 13. (Canceled).
- 14. (Withdrawn) A crosslinkable, biodegradable material comprising: a copolymer including caprolactone units and fumarate units; and a free radical initiator.
- 15. (Withdrawn) The material of claim 14 wherein: wherein the material is an injectable bone substitute.
- 16. (Withdrawn) The material of claim 11 wherein: wherein the material is an injectable bone cement.
- 17. (Withdrawn) The material of claim 14 further comprising: a porogen.
- 18. (Withdrawn) The material of claim 14 further comprising: an accelerator.
- 19. (Withdrawn) The material of claim 14 wherein: the material does not include a crosslinking agent.
- 20. (Withdrawn) The material of claim 14 further comprising: particulate or fiber reinforcement materials.
- 21. (Withdrawn) The material of claim 14 wherein: the reinforcement materials comprise hydroxyapatite.

22. (Withdrawn) The material of claim 14 wherein:

the copolymer is prepared by reacting (i) poly(ϵ -caprolactone) and (ii) fumaric acid or a salt thereof.

23. (Withdrawn) A scaffold for tissue regeneration, the scaffold comprising: a biodegradable matrix comprising a copolymer including caprolactone units and fumarate units.

24. (Withdrawn) The scaffold of claim 23 wherein:

the copolymer is prepared by reacting (i) poly(ϵ -caprolactone) and (ii) fumaric acid or a salt thereof.

25. (Withdrawn) The scaffold of claim 23 wherein:

the matrix includes particulate or fiber reinforcement materials.

26. (Withdrawn) The scaffold of claim 25 wherein:

the reinforcement materials comprise hydroxyapatite.

27. (Withdrawn) The scaffold of claim 23 wherein:

the scaffold is porous.